

Elektronische Bauelemente

2SD2403Q

Plastic-Encapsulate Transistor

SOT-89

RoHS Compliant Product

Features

- NPN Silicon Epitaxial Planar Transistor for switching and amplifier applications.
- This transistor is also available in the TO-223 case with the type designation PZT2403

1 2 3

Mechanical Data

Case: SOT-89 Plastic Package Weight: approx. 0.016g Marking Code: 156

BASE
 COLLECTOR
 EMITTER

Max 0.320 0.520 0.013 0.020 0.014 0.173 0.181 D1 1.400 0.055 0.071 2.300 2.600 0.091 0.102 E1 0.167

Maximum Ratings and Thermal Characteristics

(TA = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector Base Voltage	Vсво	80	V
Collector-Emitter Voltage	VCEO	60	V
Emitter-Base Voltage	VEBO	5.0	V
Collector Current (DC) Collector Current (pulse)	Ic Ic	3 6	А
Power Dissipation at TA = 25°C	Ptot	1.0	W
Thermal Resistance Junction to Ambiant Air	Reja	150(1)	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature Range	Ts	-55 to +150	°C

Notes: Device on alumina substrate.

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Electrical Characteristics (TJ = 25_iC unless otherwise noted)

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Any changing of specification will not be informed individual

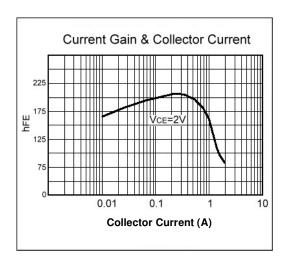
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	VCBO	IC = 100uA, IE = 0	80	-	-	V
Collector-Emitter Breakdown Voltage	VCEO	IC = 10mA, IB = 0	60	-	-	V
Emitter-Base Breakdown Voltage	VEBO	IE = 100uA, IC = 0	5	-	-	V
Emitter Cotoff Current	IEBO	VCE = 4V, IC = 0	-	-	100	nA
Collector Cutoff Current	Ісво	VCB = 60V, IE = 0	-	-	100	nA
Collector-emitter Saturation Voltage 1	VCE(sat)1	IC = 1A, IB = 0.1A	-	0.12	0.2	V
Collector-emitter Saturation Voltage 2	VCE(sat)2	IC = 3A, IB = 0.3A	-	0.43	0.6	V
Base-emitter Saturation Voltage	VBE(sat)	IC = 1A, IB = 0.1A	-	0.9	1.25	V
Base-emitter xxx Voltage	VBE(on)	IC = 1A, VCE = 2V	-	0.8	1.0	V
DC Current Gain 1	hFE1	VCE = 2V, IC = 50 mA	70	200	-	
DC Current Gain 2	hFE2	VCE = 2V, IC = 500 mA	100	200	300	
DC Current Gain 3	hFE3	VCE = 2V, IC = 1 A	80	170	-	
DC Current Gain 4	hFE4	VCE = 2V, IC = 2 A	40	80	-	
Gain-Bandwidth Product	fT	VCE = 5V, IC = 100 mA f=100MHz	140	175	-	MHz
On-Time	ton	Vcc = 10V, Ic = 500 mA	-	45	-	
Off-Time	toff	IB1 = IB2 = 50mA	-	800	-	ns
Output Capacitance	Cob	VcB = 10V, f = 2 MHz	-	-	30	pF

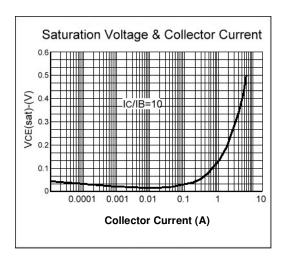
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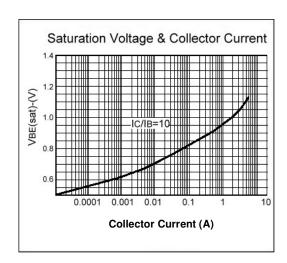


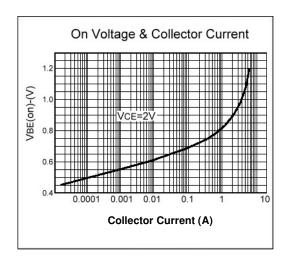
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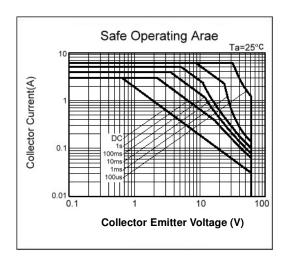
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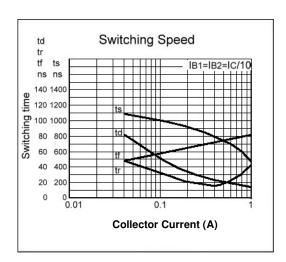












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